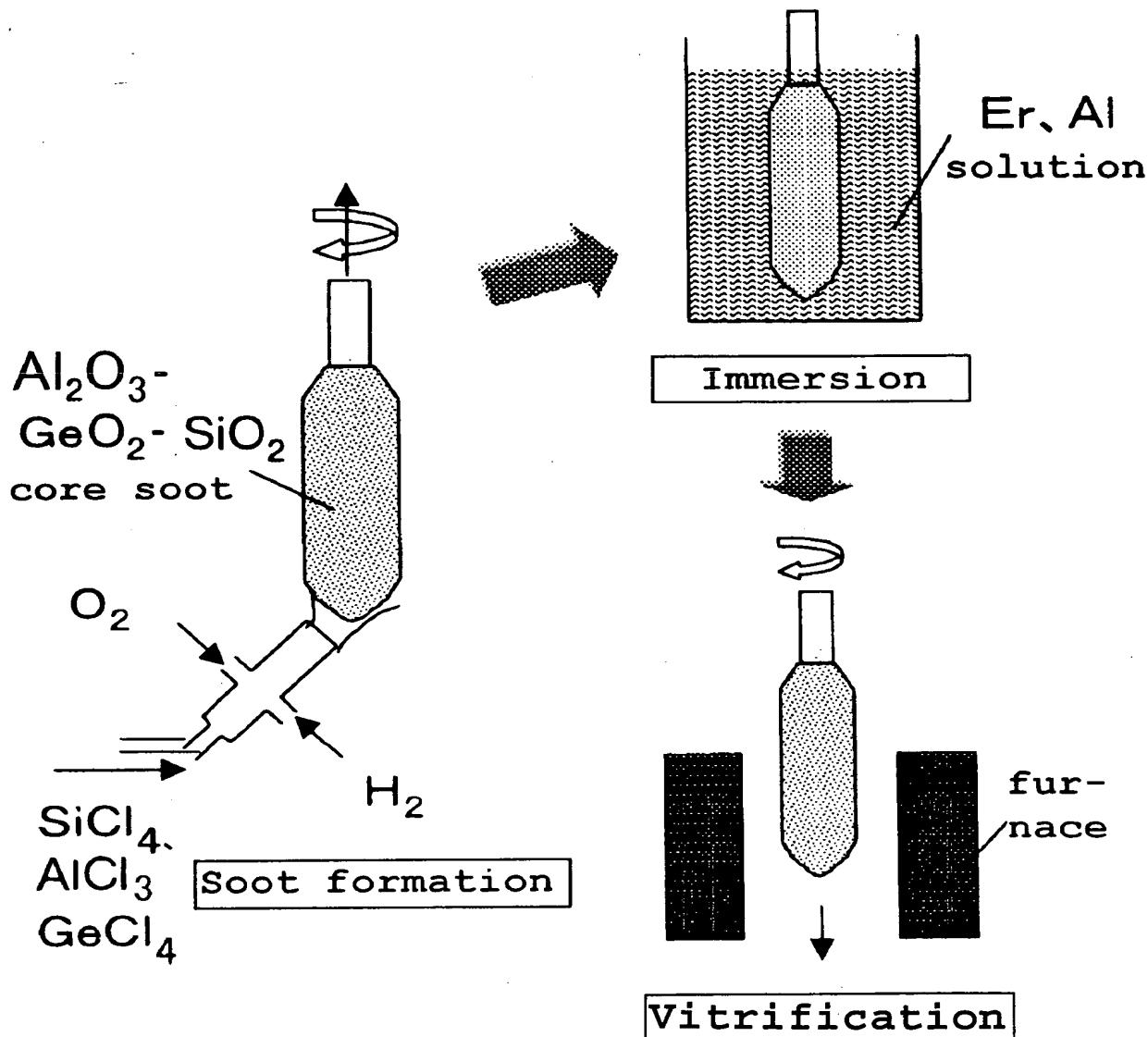




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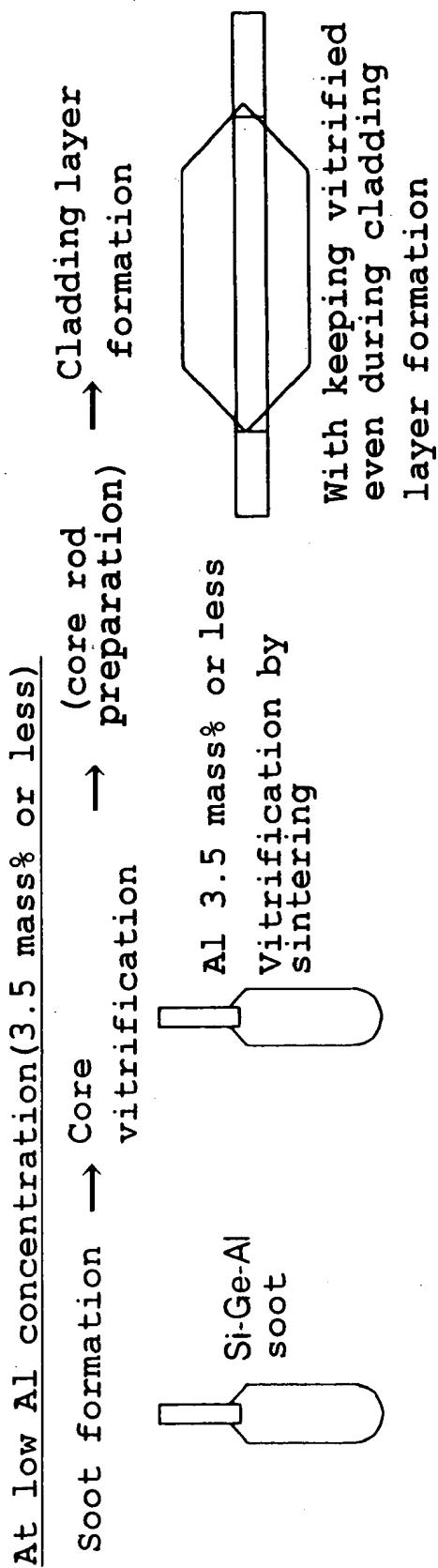
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Fig. 6



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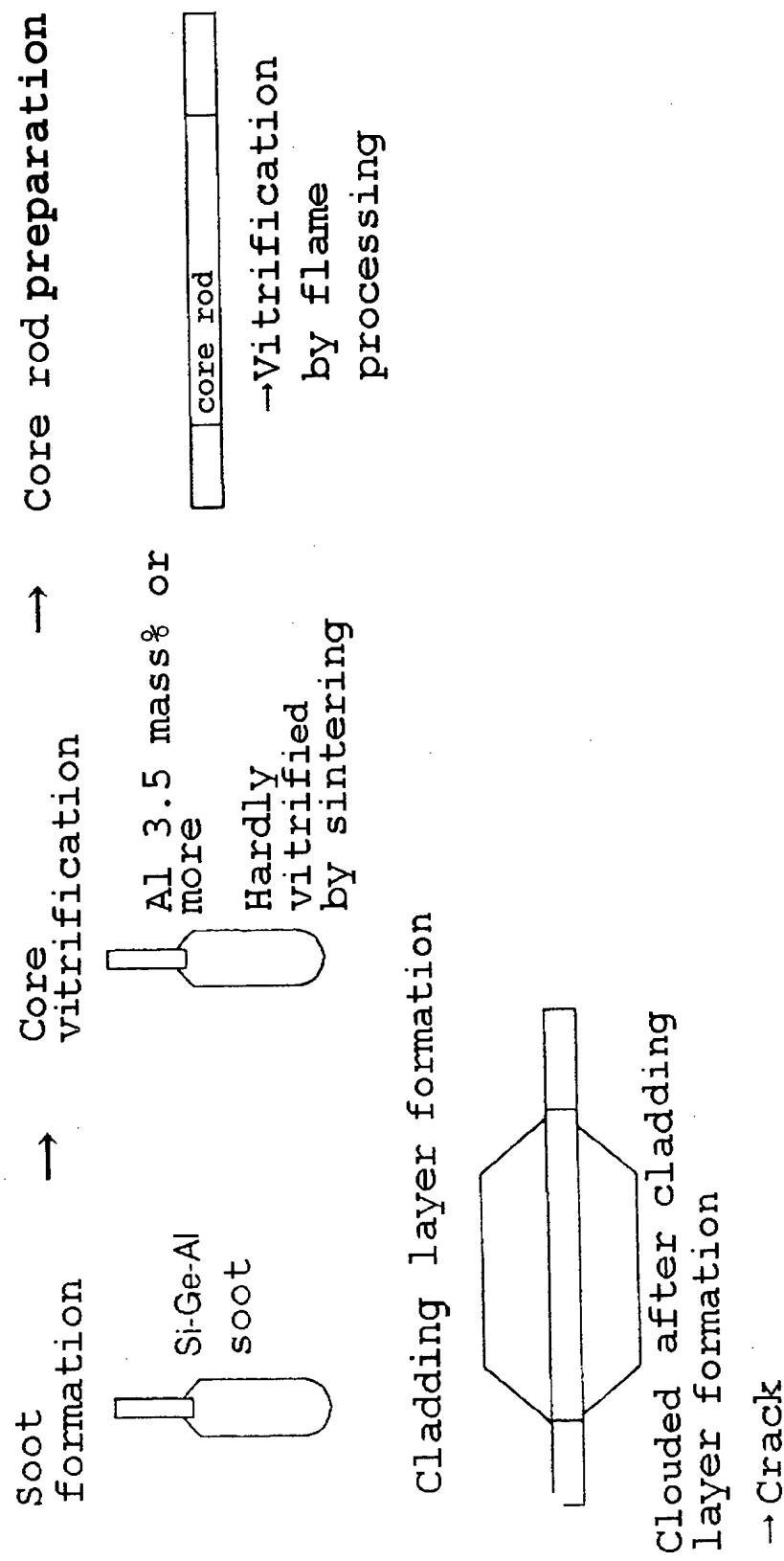
Fig. 8(a)



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Fig. 8(b)

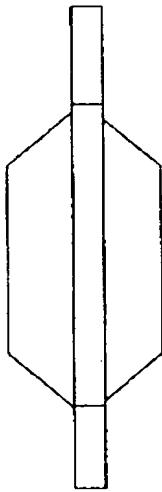
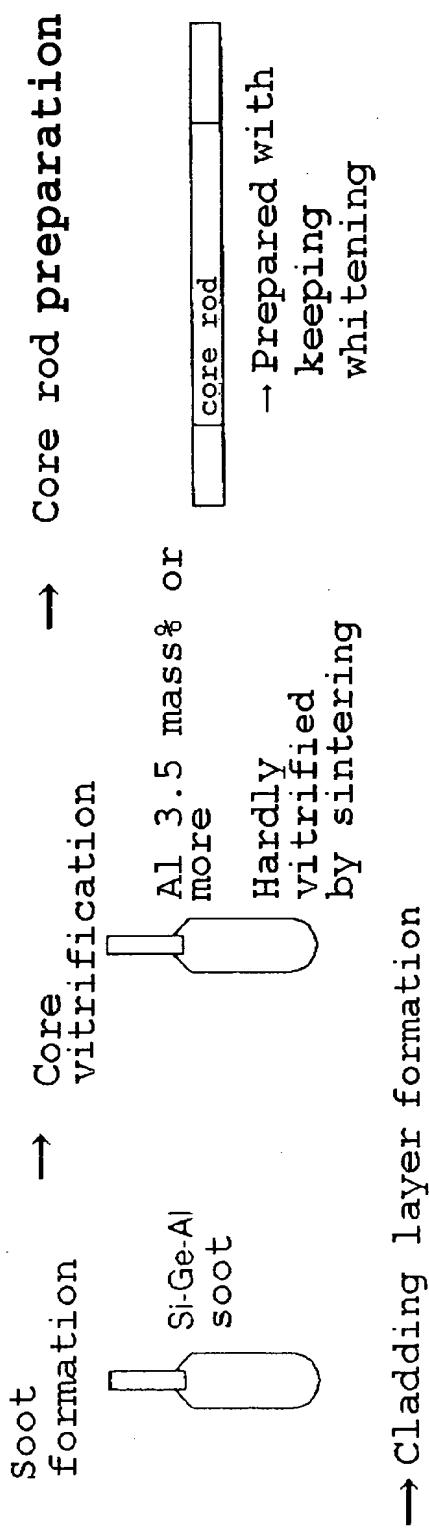
At high Al concentration (3.5 mass% or more)
Vitrification of core



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Fig. 8(c)

At high Al concentration(3.5 mass% or more)
keeping core to be clouded



Clouded after cladding layer formation

No crack